Research outputs:

Unraveling the recruitment problem: A review of environmentally-informed forecasting and management strategy evaluation
Research output: Research - peer-review › Journal article – Annual report year: 2019

Temperature-dependent adaptation allows fish to meet their food across their species’ range
Research output: Research - peer-review › Journal article – Annual report year: 2018

A generic framework for individual-based modelling and physical-biological interaction
Research output: Research - peer-review › Journal article – Annual report year: 2018

Distribution and timing of spawning Faroe Plateau cod in relation to warming spring temperatures
Research output: Research - peer-review › Journal article – Annual report year: 2018

DNA damage-induced dynamic changes in abundance and cytosol-nuclear translocation of proteins involved in translational processes, metabolism, and autophagy
Research output: Research - peer-review › Journal article – Annual report year: 2018

Lystfiskere kan få optimeret deres fiskeri og hjælpe klimaforskningen
Research output: Communication › Net publication - Internet publication – Annual report year: 2018

Marine fisheries in the North East Atlantic: Case Study 4
Research output: Communication › Book chapter – Annual report year: 2018

Oceanographic variability shapes the spawning distribution of blue whiting (Micromesistius poutassou)
Research output: Research - peer-review › Journal article – Annual report year: 2018

Spatial distribution of life-history traits and their response to environmental gradients across multiple marine taxa
Research output: Research - peer-review › Journal article – Annual report year: 2018

Spawning time adaptation allows fish to meet their food across an ocean basin
Research output: Research › Conference abstract for conference – Annual report year: 2018

A trait database for marine copepods
Research output: Research - peer-review › Journal article – Annual report year: 2017
From traits to life-history strategies: Deconstructing fish community composition across European seas
Research output: Research - peer-review › Journal article – Annual report year: 2017

Lessons from the first generation of marine ecological forecast products
Research output: Research - peer-review › Journal article – Annual report year: 2017

Managing living marine resources in a dynamic environment: the role of seasonal to decadal climate forecasts
Research output: Research - peer-review › Review – Annual report year: 2017

Marine Ecosystem Climate Services - Forecasting biology at end-user relevant time-scales
Research output: Research › Conference abstract for conference – Annual report year: 2017

Predicting ecosystems for managing a dynamic ocean
Research output: Communication › Net publication - Internet publication – Annual report year: 2017

Temporal and spatial differences between taxonomic and trait biodiversity in a large marine ecosystem: Causes and consequences
Research output: Research - peer-review › Journal article – Annual report year: 2017

The Sub-Polar Gyre Index - a community data set for application in fisheries and environment research
Research output: Research - peer-review › Journal article – Annual report year: 2017

Translating advances in Arctic climate science to climate services across the Northern Hemisphere
Research output: Research › Poster – Annual report year: 2017

Variation that can be expected when using particle tracking models in connectivity studies
Research output: Research - peer-review › Journal article – Annual report year: 2017

A trait database for marine copepods
Research output: Research - peer-review › Journal article – Annual report year: 2016

A trait database for marine copepods
Research output: Research › Dataset – Annual report year: 2017

Forecasting the spawning distribution of blue whiting (Micromesistius poutassou)
Research output: Research › Conference abstract for conference – Annual report year: 2016

From traits to life history strategies: deconstructing fish community composition across European Seas
Research output: Research › Conference abstract for conference – Annual report year: 2016

Marine Climate Services - Forecasting the state of the ocean at end-user relevant time-scale
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Reproductive traits (Fecundity, egg diameter, parental care) of marine European fish
Research output: Research › Dataset – Annual report year: 2017

Spatial structuration of life history traits: congruence between multiple taxa and environmental drivers in the North Sea
Research output: Research › Poster – Annual report year: 2016

The predictive skill of species distribution models for plankton in a changing climate
Research output: Research - peer-review › Journal article – Annual report year: 2016
Trait biogeography of marine copepods - an analysis across scales
Research output: Research - peer-review › Journal article – Annual report year: 2016

Uncertainties in projecting climate-change impacts in marine ecosystems
Research output: Research - peer-review › Journal article – Annual report year: 2015

Can we understand and predict the distributional shifts of pelagic fish?
Research output: Research › Conference abstract for conference – Annual report year: 2015

Controlling factors in fish early life history and how they combine to influence trophic links across the North Atlantic Ocean.
Research output: Research › Conference abstract for conference – Annual report year: 2015

Ecological niches of open ocean phytoplankton taxa
Research output: Research - peer-review › Journal article – Annual report year: 2015

Environmental determinates of blue whiting (Micromesistius poutassou) spawning distribution
Research output: Research › Conference abstract for conference – Annual report year: 2016

Making and using predictions of species distributions to improve survey design
Research output: Research › Conference abstract for conference – Annual report year: 2015

Measuring evolutionary adaptation of phytoplankton with local field observations
Research output: Research - peer-review › Letter – Annual report year: 2015

Modelled niche centres and niche breadths of open ocean phytoplankton taxa
Research output: Research › Dataset – Annual report year: 2017

Quirky patterns in time-series of estimates of recruitment could be artefacts
Research output: Research - peer-review › Journal article – Annual report year: 2014

Spatial linkages in the early life history of north eastern Atlantic herring populations across the north of the British Isles
Research output: Research › Conference abstract for conference – Annual report year: 2015

Synoptic-scale analysis of mechanisms driving surface chlorophyll dynamics in the North Atlantic
Research output: Research - peer-review › Journal article – Annual report year: 2015

Understanding diversity shifts by characterising the community
Research output: Research › Conference abstract for conference – Annual report year: 2015

Understanding observed copepod distributions with a trait data base
Research output: Research › Poster – Annual report year: 2015

A cascade of warming impacts brings bluefin tuna to Greenland waters
Research output: Research › Conference abstract for conference – Annual report year: 2014

Accuracy and precision in the calculation of phenology metrics
Research output: Research - peer-review › Journal article – Annual report year: 2015
A resolution to the blue whiting (Micromesistius poutassou) population paradox?
Research output: Research › peer-review › Journal article – Annual report year: 2014

Biogeographic classification of the Caspian Sea
Research output: Research › peer-review › Journal article – Annual report year: 2014

Comparative ecology of widely distributed pelagic fish species in the North Atlantic: Implications for modelling climate and fisheries impacts
Research output: Research › peer-review › Journal article – Annual report year: 2014

Distributional shifts of species in the North Atlantic: the rule or the exception?
Research output: Research › Conference abstract for conference – Annual report year: 2014

From fish to phytoplankton
Research output: Research › Conference abstract for conference – Annual report year: 2014

Hazard Warning: model misuse ahead
Research output: Research › peer-review › Journal article – Annual report year: 2013

How can we distinguish between competing explanations of year class strength?
Research output: Research › Conference abstract for conference – Annual report year: 2014

Modelled spatial and seasonal distribution of Blue Whiting (Micromesistius poutassou) larvae in the North-East Atlantic (1951 to 2005)
Research output: Research › Dataset – Annual report year: 2014

Phytoplankton bloom and subpolar gyre induced dynamics in the North Atlantic
Research output: Research › Conference abstract for conference – Annual report year: 2014

Phytoplankton bloom and subpolar gyre induced dynamics in the North Atlantic
Research output: Research › Poster – Annual report year: 2014

Phytoplankton bloom and subpolar gyre induced dynamics in the North Atlantic
Research output: Research › Poster – Annual report year: 2014

A neural network-based estimate of the seasonal to inter-annual variability of the Atlantic Ocean carbon sink
Research output: Research › peer-review › Journal article – Annual report year: 2013

Characteristic sizes of life in the oceans - from bacteria to whales
Research output: Research › Conference abstract for conference – Annual report year: 2013

Estimating phytoplankton phenology metrics from noisy, gappy data
Research output: Research › Poster – Annual report year: 2013

Fisheries: Climate change at the dinner table
Research output: Research › peer-review › Journal article – Annual report year: 2013

Fisheries: Manage declines
Research output: Research › Comment/debate – Annual report year: 2013
From phytoplankton to fish
Research output: Research › Conference abstract for conference – Annual report year: 2014

Immigranter syd fra på tallerkenen
Research output: Communication › Contribution to newspaper - Newspaper article – Annual report year: 2013

Recruitment decline in North Sea herring is accompanied by reduced larval growth rates
Research output: Research - peer-review › Journal article – Annual report year: 2013

The dynamics of the marine nitrogen cycle across the last deglaciation
Research output: Research - peer-review › Journal article – Annual report year: 2013

The North Sea autumn spawning herring (Clupea harengus L.) Spawning Component Abundance Index (SCAI)
Research output: Research › Dataset – Annual report year: 2013

Coupling otolith microstructure analysis and hydrographic backtracking suggests a mechanism for the 2000s North Sea herring recruitment failure
Research output: Research › Paper – Annual report year: 2012

How the Subpolar gyre strength influences phytoplankton blooms dynamics in the North Atlantic
Research output: Research › Paper – Annual report year: 2012

Long-term retrospective analysis of mackerel spawning in the North Sea: A new time series and modeling approach to CPR data
Research output: Research - peer-review › Journal article – Annual report year: 2012

Migration and fisheries of North East Atlantic mackerel (Scomber scombrus) in autumn and winter
Research output: Research - peer-review › Journal article – Annual report year: 2012

Modelling the mixing of herring stocks between the Baltic and the North Sea from otolith data
Research output: Research › Paper – Annual report year: 2012

Subpolar gyre strength influences phytoplankton bloom dynamics
Research output: Research › Conference abstract for conference – Annual report year: 2012

The rise and fall of the NE Atlantic blue whiting (Micromesistius poutassou)
Research output: Research - peer-review › Journal article – Annual report year: 2012

Weak subpolar Gyre lead to early blooms
Research output: Research › Conference abstract for conference – Annual report year: 2012

Does larval mortality influence population dynamics? An analysis of North Sea herring (Clupea harengus) time series
Research output: Research - peer-review › Journal article – Annual report year: 2011

Does operational oceanography address the needs of fisheries and applied environmental scientists?
Research output: Research - peer-review › Journal article – Annual report year: 2011

Ecotypes as a concept for exploring responses to climate change in fish assemblages
Research output: Research - peer-review › Journal article – Annual report year: 2010

Phytoplankton spring bloom influence on larval and juvenile fish survival
Research output: Research › Conference abstract for conference – Annual report year: 2011
Realized habitats of early-stage North Sea herring: looking for signals of environmental change
Research output: Research - peer-review › Journal article – Annual report year: 2011

Improving complex governance schemes around Western Baltic Herring, through the development of a Long-Term Management Plan in an iterative process between stakeholders and scientists
Research output: Research › Paper – Annual report year: 2010

Lessons learned from stock collapse and recovery of North Sea herring: a review
Research output: Research - peer-review › Journal article – Annual report year: 2010

Mind the gaps: a state-space model for analysing the dynamics of North Sea herring spawning components
Research output: Research - peer-review › Journal article – Annual report year: 2010

The role of spatial processes in North Sea herring larval survival and recruitment
Research output: Research › Conference abstract for conference – Annual report year: 2010

Trends in mortality of young herring larvae - evidence of a link to recruiting year-class strength
Research output: Research › Paper – Annual report year: 2010

Climate-driven changes in suitable habitats for North Sea fish: Physiological constraints on the survival of early life stages
Research output: Research › Poster – Annual report year: 2009

Comment on "Does the fall phytoplankton bloom control recruitment of Georges Bank, haddock, Melanogrammus aeglefinus, through parental condition?"
Research output: Research - peer-review › Journal article – Annual report year: 2009

Finding the signal in the noise: objective data-selection criteria improve the assessment of western Baltic spring-spawning herring
Research output: Research - peer-review › Journal article – Annual report year: 2009

Large bio-geographical shifts in the north-eastern Atlantic Ocean: From the subpolar gyre, via plankton, to blue whiting and pilot whales
Research output: Research - peer-review › Journal article – Annual report year: 2009

Recruitment in a changing environment: the 2000s North Sea herring recruitment failure
Research output: Research - peer-review › Journal article – Annual report year: 2009

Recruitment in a changing environment: the role of oceanographic processes in blue whiting population dynamics
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

The North Atlantic subpolar gyre regulates the spawning distribution of blue whiting (Micromesistius poutassou Risso)
Research output: Research - peer-review › Journal article – Annual report year: 2009

Vertical movements of Atlantic cod (Gadus morhua) in the North Sea and the Baltic Sea
Research output: Research › Poster – Annual report year: 2009

What can we learn from the stock collapse and recovery of North Sea herring? A review
Research output: Research › Conference abstract for conference – Annual report year: 2009

IBTS Q1 Sprat (Sprattius sprattius) index calculation algorithm. Implementation in R and comparison with the index used in assessment
Research output: Research › Conference article – Annual report year: 2008

**Et flerårigt grundlag for dansk industrifiskeri: Biologisk vurdering af ressourcegrundlaget og analyse af forvaltningsmodeller**
Research output: Research › Report – Annual report year: 2007

**A multi-component approach to salt and water diffusion in cheese**
Research output: Research - peer-review › Journal article – Annual report year: 1999

**Projects:**

- **Arctic impact on weather and climate (Blue-Action) (39390)**
  Project: Research

- **Climate Change and European Aquatic Resources (CERES) (39344)**
  Project: Research

- **Functional diversity in marine ecosystems - linking biodiversity to ecosystem integrity**
  Project: PhD

- **A trait-based approach towards understanding benthic-pelagic pathways in marine ecosystems**
  Project: PhD

- **A trait-based approach to Plankton Biogeography**
  Project: PhD

- **North Atlantic climate (NACLIM) (38945)**
  Project: Research

- **Understanding the mechanisms of stock recovery (UNCOVER) (38104)**
  Project: Research

- **Developing fisheries management indicators and targets (DEFINEIT) (38763)**
  Project: Research

- **Center for Ocean Life (COOL) - a Villum-Kahn Rasmussen Centre of excellence for the study of life in a changing ocean (38960)**
  Project: Research

- **Match and mismatch in the ocean (38897)**
  Project: Research

- **Judgement and knowledge in fisheries involving stakeholders (JAKFISH) (38132)**
  Project: Research

- **Development of a method for long term spatially resolved management of the herring fishery in the North Sea and IIIa taking the migration of the primary herring stocks, the fishery pattern and by-catch of mackerel into consideration (URSIN) (38731)**
  Project: Research

- **Resolving climatic impacts on fish stocks (RECLAIM) (38109)**
  Project: Research
Activities:

**International Council for the Exploration of the Sea (External organisation)**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**ICES Benchmark Workshop on Pelagic Stocks 2014 (Event)**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**International Council for the Exploration of the Sea (External organisation)**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**ICES Benchmark Workshop on Pelagic Stocks 2013 (Event)**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**ICES Workshop on Global Assessment of the Implications of Climate Change on the Spatial Distribution of Fish and Fisheries (Event)**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**International Council for the Exploration of the Sea (External organisation)**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**International Council for the Exploration of the Sea (External organisation)**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**Workshop on Northeast Atlantic mackerel monitoring and methodologies including science and industry involvement (Event)**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar